## Arnie's America's Cup Challenge

#### The Game

Play of the Game

Success in sailing is founded on a 'feel for the sea', teamwork, practice and good judgement. Some say luck too, but we think not. We have included all these elements as the essence of success at playing this game.

We hope you have the 'feel for the sea' some would call luck. Teamwork we translate into joystick skill. Pages the ARMCHAIR GUIDE TO THE AMERICA'S CUP describes a typical 12 metre yacht and its crew. Your joystick becomes your crew. The better a crew works together the better the vacht sails and so, the better you refine your joystick skills the better you and 'your crew' will sail. Practice makes perfect. Good judgement is the challenge that makes people keep striving. Success in 12 metre yachting, and in this game, results from repeated good judgement, learning from one's mistakes and excellent teamwork

You will load the game into your computer as advised in the supplied instructions, with the initial selections made via the Leyboard.

When the game is loaded, you will

 SINGLE PLAYER - You're the Challenger, the Computer is the Defender.

• TWO PLAYERS - Players to decide their choice and identify as either the Challenger or Defender.

 LEVEL OF PLAY – Your choice of AMATEUR, CLUBRACE or AMERICA'S ĆUP.

The COMMODORE will then announce the RACE WEATHER CONDITIONS. PRESS the SPACE BAR and you will be asked to CHOOSE YOUR STARTING SAILS

If you're careful, your opponent will not be aware of your choice until the race

SAIL SELECTION is made using the joystick thus:

Joystick operations.

Iovstick



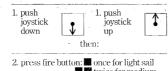
In the ARMCHAIR GUIDE TO THE AMERICA'S CUP we describe the factors affecting the sailing

performance (Pages ) and here we describe how you convert your skipper's decisions through your joystick into action.

The OFFICIAL AMERICA'S CUP COMPUTER GAME is a realistic graphic recreation of 12 metre yachts sailing and what will need to be done to win the America's Cup. It is immensely realistic in appearance, strategy and player skill. You'll really feel like you're out there pitting wits with the best 12 metre yachtsmen. The rules and regulations are those applied to the America's Cup. The ARMCHAIR GUIDE TO THE AMERICA'S CUP specifically details from pages all you will need to know about 12 metre yachts and America's Cup Match racing. The better you apply the

theory detailed there the better you'll play

#### TO CHOOSE GENOA or SPINNAKER



twice for medium three times for

heavy sail

3. return the joystick to the centre and press the fire button once.

4. the screen will identify this is DONE in the top right or left hand corner.

Play begins with the PRE-RACE MANOEUVRES, the START and the RACE OVER THE FULL EIGHT (8) LEGS of the course as detailed in the ARMCHAIR GUIDE TO THE AMERICA'S CUP, page , and in the game's 'demonstration' mode.

N.B.: If no selections are made, the game will automatically switch to 'demonstration' mode and stay there until a key is pressed. See supplied instructions.

Control of your yacht is by joystick only and you will be kept very busy, so a good quality, robust joystick is suggested.

In game play mode there are THREE (3) modes you can be in at any

1. HELMSMAN'S MODE 2. SAILS SELECTION MODE 3. WINCHING MODE

Helmsman's mode is the mode used to control the yacht's direction and is the default mode.

Joystick movement to the RIGHT or **LEFT** without pressing the fire button, steers the yacht in the STARBOARD or PORT direction respectively.



RIGHT - movement to



LEFT - movement to PORT

When in split-screen mode (the yachts are too far apart to appear on one screen) pressing the fire button in

'HELMSMAN'S' mode causes your side of the split-screen to display the 'mini-

#### Helmsman's Mode

This mode is selected by pushing the joystick forward and pressing the fire button once.



Once in this mode, these selections produce the following results:



JOYSTICK RIGHT -◆ 'BOOM' moves towards centre line



JOYSTICK LEFT -'BOOM' moves out from centre line

The 'ANGLE OF THE BOOM TO THE WIND' is critical to the speed of the yacht and with sail choice, represent the major options you have to affect your yacht's performance.



#### JOYSTICK UP -'SELECTS SPINNAKER'

Then each press of the fire button selects one of the available choices: once for light spinnaker twice for medium spinnaker three times for heavy spinnaker



Then each press of the fire button selects one of the available choices:

once for light genoa twice for medium genoa three times for heavy genoa

pressing the fire button once with the joystick centred returns you to 'HELMSMAN'S' mode.

Once new sails have been selected 'WINCHING' mode is selected by moving the JOYSTICK DOWN and pressing the fire button ONCE.



You can then WINCH SAIL UP by rotating the joystick:



CLOCKWISE

WINCH SAIL DOWN by rotating the



ANTI-CLOCKWISE

Winching skill is a combination of speed, judgement and consistent contact with all switches in the joystick. A smooth action produces best results.

Pressing the fire button once with the joystick centred returns you to the 'HELMSMAN'S' mode.



Winching Mode

## Arnie's America's CupChallenge

#### COURSE SCREENS\*

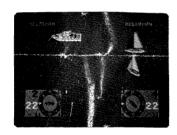
The actual play is represented by FIVE (5) SCREENS

### The Course Screen



Which from above, identifies the relative position of the yachts on the America's Cup course. During play this screen is automatically called up every minute or so for about 'four (4) seconds, unless some other action interferes. NOTE: Pay particular attention to any CHANGES IN THE WEATHER (WIND SHIFTS).

#### The Start Screen



Identifying PRE-RACE MANOEUVRING and the START BOAT. This screen scrolls to represent the 'RACE' mode with two (2) yachts sailing around the course.

# The Split Screen



A. Split screen mode

- A. Is automatically created if the yachts are too far apart to appear together on the one screen. The **DEFENDER** is on the **LEFT** and the **CHALLENGER** is on the **RIGHT**.
- B. Each yacht can call up a 'mini-course' screen to identify his relative position by pressing the fire button with the joystick centred in 'HELMSMAN'S' mode.

Represents a close view of either or by achts rounding any 'MARKER-BUOY'. This represents a critical phase of tactical activity with sail changing usually required. This screen takes precedence over all others when a yacht is closely adjacent to any buoy.



The Buoy Screen

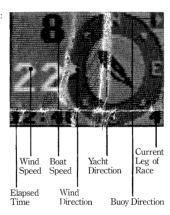
You will have on-screen assistance from:
a) a MARKER ARROW identifying the
DIRECTION OF THE NEXT
MARKER-BUOY you are heading for.
b) EACH PLAYER has a dial identifying
his: – wind speed and direction

- boat speed and direction
- elapsed time for the race
- current leg of the race.

c) 'MESSAGES' appear on the screen identifying changes in conditions or sails related to the current race. Concentration is critical, particularly in identifying 'wind shifts', or tactical moves by your opponent.

You have the same information to make tactical decisions that 12 metre yachtsmen do, so good sailing.

Remember, the ARMCHAIR
GUIDE TO THE AMERICA'S CUP
provides most of the information you need
to be a successful skipper. The 'SINGLE
PLAYER' mode allows you to practice
and develop skill.



**During Play** 

After each race is over, the 'RACE RESULTS' will appear.

Using the joystick in an 'UP/DOWN MOTION' you select your choice, then press the fire button to get:

- 1. RACE RESULTS full results of the last game in the series and the series status. You then decide either 2 or 3.
  2. NEXT RACE starts the next race in this series.
- 3. **NEW SERIES** clears out the old series and starts a new series.

If no action is taken after loading of the game or after selecting 2 or 3, a 'DEMONSTRATION' mode will commence and continue until the 'SPACE BAR' is pressed.

(Defaulting to 'DEMONSTRATION' mode will mean the starting of a new series.)



Race Results

# Yachting terms – what they all mean

THE America's Cup is the ultimate vacht race. It has captured the imagination of people who like watching nations, vachts and individuals tussle in a race every competitor has a realistic chance of winning.

The amazing thing about the America's Cup is that it is followed worldwide by millions of people who know very little about sailing.

Your Armchair Guide to yachting language will make this great spectacle easy to follow and very enjoyable. We hope the Guide lets you become an armchair

## Glossary

Abeam: Anything abeam is straight out from either side of the vacht. Aft: At the rear

Astern: Behind the yacht.

Backstay: Wire that runs from the top of the mast to a point on the stern. Used to tension the mast slightly backwards.

Bear away: Alter course away from

Bearing: Direction the yacht is going. Blanketing: Sailing between your opponent and the wind, giving him "dirty air" from your sails.

Boom: Aluminium or kevlar spar attached to the foot or bottom edge of the mainsail.

Bow: Front section of the yacht. Brace: Rope or wire that controls the angle of the spinnaker pole to the wind Broad reach: Sailing with the wind

coming from the side. By The Lee: Sailing downwind (wind behind) at an angle where the sails could be set on either side of the vacht. It means sailing in a position beyond the present

tack without gybing. Coaming: Edge of the yacht where hull and deck join.

Clew: Corner of the sail on which the sheets (ropes) are tied.

Close hauled: Sailing as close as possible to the direction of the wind.

Coffee Grinder: The big winch with

pedal type handles.

Come about: Bring the bow across the eye of the wind until the sails fill on the other side. Also known as tacking.

Come up: To point the bow of the yacht "up" towards the direction of the wind. Going "up" is into the wind. Going "down" is away from the wind. Covering: Getting in front and staying

between your opponent and the eye of the

wind, creating a wind shadow. No matter which way he tacks, you go with him. He cannot sail past you through this wind shadow.

Crane: The mast crane is the alloy arm at the top of the mast holding up the wire mainsail halvard and the wire backstay.

**Cross-trees:** Supports on the mast to keep the wire rigging steady.

Dead square: Sailing with wind right behind, with the mainsail out to one side. Dirty air: Disturbed air from the leading vacht hitting the sails of the following vacht, Causes dramatic loss of speed.

Downhill: Sailing with the spinnaker up and the wind behind.

Downwind: Same direction as downhill. Away from the wind.

Ease sheets: Slacken off the ropes that adjust the sails.

Falling Off: Heading slightly away from the wind to pick up speed for tactical reasons

Foot: The bottom edge of a sail. Footing: Sailing slightly below the optimum angle of the wind.

Foredeck: Section of deck between mast and how

Forestay: Tensioning wire running from bow to masthead.

Genoa: Large front sail that overlaps the

Gooseneck: Fitting attaching mainsail boom to mast.

Grind: Winding the handles to operate the huge winches.

Grinder: The big winch operators. commonly called "gorillas" because of the strength needed in this position.

Gybe: Changing direction when the wind is behind. The sails swing from one side of vacht to the other.

Halyard: Wire or rope used to hoist sail up the mast.

Harden up: Pull the sails tighter and change direction towards the wind. Header or knock: Wind shift that

enables yacht to tack to a slightly better line for the next mark

Heeling: Way in which yacht leans to one side in the wind. Helm: The steering wheel, or tiller.

Jib: The triangular headsail that provides acceleration power.

Lay line: Imaginary straight line a yacht follows to each mark.

Leech: The trailing edge of a sail. Lee-bow: To tack into a position slightly ahead and slightly to leeward of your opponent. An advantageous but risky manoeuvre

Leeward: Side away from the wind.

Luff: The leading edge of sails. The luff flaps when the bow goes too close to the wind direction.

Luffing: When the sail flaps because the vacht is too close to the wind.

Mainsail: The rear sail that is attached to a track up the mast and to the mainsail boom.

Mainsheet: Rope that controls the mainsail

Masthead: Top of the mast. Over-ride: When the turns of rope around a winch run one over another. With several tonnes of pressure on the winch, an over-ride is a big problem, iamming the sail position.

Pinching: Sailing slightly above the optimum angle on the wind.

Pointing: Aiming the bow as far as possible into the wind.

Pole: Also called the spinnaker boom. A pole attached to the mast and spinnaker, to hold the spinnaker at the correct angle to the wind

Port: Left side

Port tack: When the wind comes from the left, with sails leaning to the right. Reaching: When the sails are eased, with the wind coming from one side.

Running: Sailing with the wind behind. Sheets: Ropes that tighten and loosen the

Shooting: Tricky tactic when you can't quite make a mark. Means temporarily heading the yacht into the wind and luffing (sails flapping) above your course, and relying on the boat's momentum to 'shoot' around a mark. This avoids making a short tack at mark, but must be done skilfully, as the yacht rapidly loses speed.

Shrouds: Wires on each side of the yacht

holding the mast up.

Spinnaker: Big, full sail that billows out the front when the wind is from behind. Spreaders: Supports on the mast to keep the wire supports steady. Also known as

cross-trees. Starboard tack: When the wind is coming from the right, with the yacht and sails leaning to the left.

Stays: Wires running from top of mast to bow (forestay) and top of mast to stern (backstay). They prevent the mast falling forward or backwards. The backstay also controls the degree of bend in the mast. Stern: Rear end.

Tack: Front bottom corner of a sail. Tacking: When the yacht swings through the wind's eye and the sails swing from one side to the other.

Tactician: He works out the Match Racing tactics and constantly advises the skipper what is happening.

ARMCHAIR GUIDE

Tail: Rope attached to the end of a wire

Tailing: To pull tighter on a sheet (rope) wound around a winch.

Tender: Fast powerboat carrying syndicate managers, advisers, computers and some spare parts.

Transom: Stern section of the yacht. Turtle: Special sail bag with zipper or flaps from which sails can be speedily

Under way: The yacht is moving forward.

Upwind: Sailing towards the wind.

Vang (Boom Vang): Wire pulley system to hold the mainsail boom. Stops it angling up away from the deck.

Weather helm: When each gust tends to push the yacht up into the wind.

Weather mark: The mark to windward of the starting line. Must go into the wind

to get there. Weather side: Side of the yacht towards the wind

Winches: Mechanical drums that tighten sheets and halvards.

Wind shadow: When the following vacht runs into disturbed air from the leader's

Wineglass: A bad twist in the centre of the spinnaker. The resulting shape is like a wine glass.

Wing mark: The widest mark on the course after the first reach. The mark is out wide, like a wing.

Windward: Side from which wind is blowing

Wrap: When the spinnaker is twisted around the forestay.

## Yachting Rules

HE following Rules are an abridged version from the International Yacht Racing Union 'Blue Book' which the 12 metres race under.

During the America's Cup Computer game any infringement of these rules will be deemed a 'Foul' by either the Challenger or Defender and the nature of the 'Foul' and the yacht penalised will be indicated on the screen.

The penalty for a "Foul" will be 4 boat lengths. Any Foul during starting manoeuvres and prior to the actual start will be paid after crossing the start line.

1. A Port-Tack vacht shall keep clear of a Starboard-Tack Yacht (Rule 36)

2a. A Windward vacht shall keep clear of a Leeward vacht (Kule 37.1)

2b. A Leeward yacht may Luff as she pleases to hamper Windward yacht (Rule

3. A yacht Clear Astern shall keep clear of a vacht Clear Ahead (Rule 37.2)

4. A right of way yacht shall not alter course to prevent the other yacht keeping clear. (Rule 35) (exception is rule 38.1

5. A vacht that is Tacking or Gybing shall keep clear of a yacht on a tack.

6. The outside vacht shall give an inside overlapping yacht room to round a mark. 7. At a starting mark the Leeward yacht does not give room to the Windward Barging yacht.

8. When both yachts Tack or Gybe at the same time, the one on the other's Port or left side, shall keep clear.

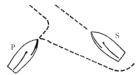
9. A vacht that touches a mark/buov must complete the rounding, then re-round the mark without touching it, keeping clear of other vacht.

10. A premature starter must return to the pre-race side of the line and start again. While returning she must keep clear of other yacht.

11. A yacht that is racing shall keep clear of a yacht recovering a man-overboard.

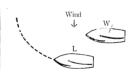
12. Right of way yacht does not have to hit the other yacht to win a protest. If he has to avoid a collision the other yacht is wrong. No attempt to avoid a collision will result in the right of way yacht and the infringer being penalised.

1. PORT AND STARBOARD



Yacht P must alter course to avoid vacht S either by bearing away behind her or tacking a safe distance away.

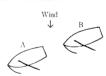
2a. WINDWARD & LEEWARD



Yacht W must not sail too close to Yacht L.

2b. Yacht L may luff, alter course to windward, as sharply as she pleases to stop W from overtaking.

3. CLEAR ASTERN. CLEAR AHEAD



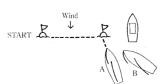
Yacht B must keep clear of Yacht A. If Yacht B is overtaking she must attempt to go around vacht A.

6. ROOM TO ROUND MARKS AND

Yacht A is overlapping Yacht B. Yacht B must give A room to round.



7. BARGING AT THE START



Yacht B is said to be barging. Yacht A can maintain a close hauled cover and exclude vacht B who is not entitled to roam at a starting mark.

TO THE AMERICA'S CUP